WHAT IS CLAIMED:

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1	 A MRI RF coil array, said array comprising:
2	a first coil having a null B_{1} point and a quasi-one-peak
3	sensitivity profile; and
4	a second coil oriented with respect to said first coil to
5	reduce coupling.

- 2. A MRI RF coil array according to claim 1, wherein said second coil is within said first coil.
 - 3. A MRI coil array according to claim 1, wherein said second coil overlaps said first coil.
 - 4. A MRI coil array according to claim 1, wherein said second coil is cascaded with said first coil.
 - 5. A MRI coil array according to claim 1, wherein said second coil is solenoidal.
 - 6. A MRI coil array, said array comprising:
 - a first solenoidal coil having a first section and a second section, said first section having more turns than said second section and said second section having a counter-rotational orientation with respect to said first section; and
 - a second solenoidal coil, said second coil being oriented with respect to said first coil to reduce coupling.
- 7. A MRI coil array according to claim 6, wherein said second coil is oriented between said first and second sections.

- 8. A MRI coil array according to claim 6, wherein said second coil is oriented about said second section.
- 9. A MRI coil array according to claim 6, wherein said second coil is cascaded with said first coil.